

November 02, 2016

David Pluhar
Civil & Environmental Consultants
4848 Park 370 Blvd.
Suite F
Hazelwood, MO 63042
TEL: (314) 656-4566
FAX: (314) 656-4595



RE: Huster Road 12-678.0004

WorkOrder: 16101665

Dear David Pluhar:

TEKLAB, INC received 5 samples on 10/27/2016 2:08:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

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Definitions

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants

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Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surrogate Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|---|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| I - Associated internal standard was outside method criteria | J - Analyte detected below quantitation limits |
| M - Manual Integration used to determine area response | ND - Not Detected at the Reporting Limit |
| R - RPD outside accepted recovery limits | S - Spike Recovery outside recovery limits |
| T - TIC(Tentatively identified compound) | X - Value exceeds Maximum Contaminant Level |



Case Narrative

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

Cooler Receipt Temp: 7.82 °C

Locations and Accreditations

	Collinsville	Springfield	Kansas City	Collinsville Air
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
Fax	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
Email	jhriley@teklabinc.com	KKlostermann@teklabinc.com	Ryoungstrom@teklabinc.com	EHurley@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2017	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2017	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2017	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2017	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2017	Collinsville
Arkansas	ADEQ	88-0966		3/14/2017	Collinsville
Illinois	IDPH	17584		5/31/2017	Collinsville
Kentucky	KDEP	98006		12/31/2016	Collinsville
Kentucky	UST	0073		1/31/2017	Collinsville
Missouri	MDNR	00930		5/31/2017	Collinsville
Missouri	MDNR	930		1/31/2017	Collinsville
Oklahoma	ODEQ	9978		8/31/2017	Collinsville

Laboratory Results

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-001

Client Sample ID: CW-4

Matrix: GROUNDWATER

Collection Date: 10/27/2016 8:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	11/01/2016 15:09	124020
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	11/01/2016 15:09	124020
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
2-Butanone	NELAP	25.0		ND	µg/L	1	11/01/2016 15:09	124020
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	11/01/2016 15:09	124020
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
2-Hexanone	NELAP	25.0		ND	µg/L	1	11/01/2016 15:09	124020
2-Nitropropane	NELAP	50.0		ND	µg/L	1	11/01/2016 15:09	124020
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	11/01/2016 15:09	124020
Acetone	NELAP	25.0		ND	µg/L	1	11/01/2016 15:09	124020
Acetonitrile	NELAP	50.0		ND	µg/L	1	11/01/2016 15:09	124020
Acrolein	NELAP	100		ND	µg/L	1	11/01/2016 15:09	124020
Acrylonitrile	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Allyl chloride	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Benzene	NELAP	2.0		ND	µg/L	1	11/01/2016 15:09	124020
Bromobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Bromochloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Bromoform	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Bromomethane	NELAP	10.0		ND	µg/L	1	11/01/2016 15:09	124020
Carbon disulfide	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Chlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Chloroethane	NELAP	10.0		ND	µg/L	1	11/01/2016 15:09	124020

Laboratory Results

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-001

Client Sample ID: CW-4

Matrix: GROUNDWATER

Collection Date: 10/27/2016 8:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Chloromethane	NELAP	10.0		ND	µg/L	1	11/01/2016 15:09	124020
Chloroprene	NELAP	20.0		ND	µg/L	1	11/01/2016 15:09	124020
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Cyclohexanone		50.0		ND	µg/L	1	11/01/2016 15:09	124020
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Dibromomethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	11/01/2016 15:09	124020
Ethyl acetate	NELAP	10.0		ND	µg/L	1	11/01/2016 15:09	124020
Ethyl ether	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Ethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Hexachloroethane	NELAP	10.0		ND	µg/L	1	11/01/2016 15:09	124020
Iodomethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	11/01/2016 15:09	124020
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	11/01/2016 15:09	124020
Methylacrylate	NELAP	10.0		ND	µg/L	1	11/01/2016 15:09	124020
Methylene chloride	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Naphthalene	NELAP	10.0		ND	µg/L	1	11/01/2016 15:09	124020
n-Butyl acetate		25.0		ND	µg/L	1	11/01/2016 15:09	124020
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
n-Heptane		20.0		ND	µg/L	1	11/01/2016 15:09	124020
n-Hexane		20.0		ND	µg/L	1	11/01/2016 15:09	124020
Nitrobenzene	NELAP	50.0		ND	µg/L	1	11/01/2016 15:09	124020
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
o-Xylene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Pentachloroethane	NELAP	20.0		ND	µg/L	1	11/01/2016 15:09	124020
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Propionitrile	NELAP	50.0		ND	µg/L	1	11/01/2016 15:09	124020
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Styrene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	11/01/2016 15:09	124020
Toluene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	11/01/2016 15:09	124020
Trichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:09	124020
Vinyl acetate	NELAP	10.0		ND	µg/L	1	11/01/2016 15:09	124020

Laboratory Results

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-001

Client Sample ID: CW-4

Matrix: GROUNDWATER

Collection Date: 10/27/2016 8:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	11/01/2016 15:09	124020
Surr: 1,2-Dichloroethane-d4		74.7-129		95.2	%REC	1	11/01/2016 15:09	124020
Surr: 4-Bromofluorobenzene		86-119		95.1	%REC	1	11/01/2016 15:09	124020
Surr: Dibromofluoromethane		81.7-123		101.4	%REC	1	11/01/2016 15:09	124020
Surr: Toluene-d8		84.3-114		91.6	%REC	1	11/01/2016 15:09	124020

LCS and LCSD recovered outside upper QC limits for iodomethane. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

Allowable Marginal Exceedance of ethyl ether in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-002

Client Sample ID: CW-5

Matrix: GROUNDWATER

Collection Date: 10/27/2016 8:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	11/01/2016 15:36	124020
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	11/01/2016 15:36	124020
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
2-Butanone	NELAP	25.0		ND	µg/L	1	11/01/2016 15:36	124020
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	11/01/2016 15:36	124020
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
2-Hexanone	NELAP	25.0		ND	µg/L	1	11/01/2016 15:36	124020
2-Nitropropane	NELAP	50.0		ND	µg/L	1	11/01/2016 15:36	124020
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	11/01/2016 15:36	124020
Acetone	NELAP	25.0		ND	µg/L	1	11/01/2016 15:36	124020
Acetonitrile	NELAP	50.0		ND	µg/L	1	11/01/2016 15:36	124020
Acrolein	NELAP	100		ND	µg/L	1	11/01/2016 15:36	124020
Acrylonitrile	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Allyl chloride	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Benzene	NELAP	2.0		ND	µg/L	1	11/01/2016 15:36	124020
Bromobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Bromochloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Bromoform	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Bromomethane	NELAP	10.0		ND	µg/L	1	11/01/2016 15:36	124020
Carbon disulfide	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Chlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Chloroethane	NELAP	10.0		ND	µg/L	1	11/01/2016 15:36	124020

Laboratory Results

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-002

Client Sample ID: CW-5

Matrix: GROUNDWATER

Collection Date: 10/27/2016 8:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Chloromethane	NELAP	10.0		ND	µg/L	1	11/01/2016 15:36	124020
Chloroprene	NELAP	20.0		ND	µg/L	1	11/01/2016 15:36	124020
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Cyclohexanone		50.0		ND	µg/L	1	11/01/2016 15:36	124020
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Dibromomethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	11/01/2016 15:36	124020
Ethyl acetate	NELAP	10.0		ND	µg/L	1	11/01/2016 15:36	124020
Ethyl ether	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Ethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Hexachloroethane	NELAP	10.0		ND	µg/L	1	11/01/2016 15:36	124020
Iodomethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	11/01/2016 15:36	124020
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	11/01/2016 15:36	124020
Methylacrylate	NELAP	10.0		ND	µg/L	1	11/01/2016 15:36	124020
Methylene chloride	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Naphthalene	NELAP	10.0		ND	µg/L	1	11/01/2016 15:36	124020
n-Butyl acetate		25.0		ND	µg/L	1	11/01/2016 15:36	124020
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
n-Heptane		20.0		ND	µg/L	1	11/01/2016 15:36	124020
n-Hexane		20.0		ND	µg/L	1	11/01/2016 15:36	124020
Nitrobenzene	NELAP	50.0		ND	µg/L	1	11/01/2016 15:36	124020
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
o-Xylene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Pentachloroethane	NELAP	20.0		ND	µg/L	1	11/01/2016 15:36	124020
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Propionitrile	NELAP	50.0		ND	µg/L	1	11/01/2016 15:36	124020
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Styrene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	11/01/2016 15:36	124020
Toluene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	11/01/2016 15:36	124020
Trichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 15:36	124020
Vinyl acetate	NELAP	10.0		ND	µg/L	1	11/01/2016 15:36	124020

Laboratory Results

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-002

Client Sample ID: CW-5

Matrix: GROUNDWATER

Collection Date: 10/27/2016 8:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	11/01/2016 15:36	124020
Surr: 1,2-Dichloroethane-d4		74.7-129		93.1	%REC	1	11/01/2016 15:36	124020
Surr: 4-Bromofluorobenzene		86-119		95.8	%REC	1	11/01/2016 15:36	124020
Surr: Dibromofluoromethane		81.7-123		100.3	%REC	1	11/01/2016 15:36	124020
Surr: Toluene-d8		84.3-114		91.6	%REC	1	11/01/2016 15:36	124020

LCS and LCSD recovered outside upper QC limits for iodomethane. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

Allowable Marginal Exceedance of ethyl ether in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-003

Client Sample ID: CW-6

Matrix: GROUNDWATER

Collection Date: 10/27/2016 8:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	11/01/2016 16:03	124020
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	11/01/2016 16:03	124020
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
2-Butanone	NELAP	25.0		ND	µg/L	1	11/01/2016 16:03	124020
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	11/01/2016 16:03	124020
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
2-Hexanone	NELAP	25.0		ND	µg/L	1	11/01/2016 16:03	124020
2-Nitropropane	NELAP	50.0		ND	µg/L	1	11/01/2016 16:03	124020
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	11/01/2016 16:03	124020
Acetone	NELAP	25.0		ND	µg/L	1	11/01/2016 16:03	124020
Acetonitrile	NELAP	50.0		ND	µg/L	1	11/01/2016 16:03	124020
Acrolein	NELAP	100		ND	µg/L	1	11/01/2016 16:03	124020
Acrylonitrile	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Allyl chloride	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Benzene	NELAP	2.0		ND	µg/L	1	11/01/2016 16:03	124020
Bromobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Bromochloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Bromoform	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Bromomethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:03	124020
Carbon disulfide	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Chlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Chloroethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:03	124020

Laboratory Results

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-003

Client Sample ID: CW-6

Matrix: GROUNDWATER

Collection Date: 10/27/2016 8:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Chloromethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:03	124020
Chloroprene	NELAP	20.0		ND	µg/L	1	11/01/2016 16:03	124020
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Cyclohexanone		50.0		ND	µg/L	1	11/01/2016 16:03	124020
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Dibromomethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:03	124020
Ethyl acetate	NELAP	10.0		ND	µg/L	1	11/01/2016 16:03	124020
Ethyl ether	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Ethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Hexachloroethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:03	124020
Iodomethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	11/01/2016 16:03	124020
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	11/01/2016 16:03	124020
Methylacrylate	NELAP	10.0		ND	µg/L	1	11/01/2016 16:03	124020
Methylene chloride	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Naphthalene	NELAP	10.0		ND	µg/L	1	11/01/2016 16:03	124020
n-Butyl acetate		25.0		ND	µg/L	1	11/01/2016 16:03	124020
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
n-Heptane		20.0		ND	µg/L	1	11/01/2016 16:03	124020
n-Hexane		20.0		ND	µg/L	1	11/01/2016 16:03	124020
Nitrobenzene	NELAP	50.0		ND	µg/L	1	11/01/2016 16:03	124020
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
o-Xylene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Pentachloroethane	NELAP	20.0		ND	µg/L	1	11/01/2016 16:03	124020
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Propionitrile	NELAP	50.0		ND	µg/L	1	11/01/2016 16:03	124020
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Styrene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	11/01/2016 16:03	124020
Toluene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	11/01/2016 16:03	124020
Trichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:03	124020
Vinyl acetate	NELAP	10.0		ND	µg/L	1	11/01/2016 16:03	124020

Laboratory Results

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-003

Client Sample ID: CW-6

Matrix: GROUNDWATER

Collection Date: 10/27/2016 8:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	11/01/2016 16:03	124020
Surr: 1,2-Dichloroethane-d4		74.7-129		93.6	%REC	1	11/01/2016 16:03	124020
Surr: 4-Bromofluorobenzene		86-119		97.0	%REC	1	11/01/2016 16:03	124020
Surr: Dibromofluoromethane		81.7-123		101.2	%REC	1	11/01/2016 16:03	124020
Surr: Toluene-d8		84.3-114		92.1	%REC	1	11/01/2016 16:03	124020

LCS and LCSD recovered outside upper QC limits for iodomethane. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

Allowable Marginal Exceedance of ethyl ether in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-004

Client Sample ID: CW-9

Matrix: GROUNDWATER

Collection Date: 10/27/2016 8:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	11/01/2016 16:30	124020
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	11/01/2016 16:30	124020
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
2-Butanone	NELAP	25.0		ND	µg/L	1	11/01/2016 16:30	124020
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	11/01/2016 16:30	124020
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
2-Hexanone	NELAP	25.0		ND	µg/L	1	11/01/2016 16:30	124020
2-Nitropropane	NELAP	50.0		ND	µg/L	1	11/01/2016 16:30	124020
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	11/01/2016 16:30	124020
Acetone	NELAP	25.0		ND	µg/L	1	11/01/2016 16:30	124020
Acetonitrile	NELAP	50.0		ND	µg/L	1	11/01/2016 16:30	124020
Acrolein	NELAP	100		ND	µg/L	1	11/01/2016 16:30	124020
Acrylonitrile	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Allyl chloride	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Benzene	NELAP	2.0		ND	µg/L	1	11/01/2016 16:30	124020
Bromobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Bromochloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Bromoform	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Bromomethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:30	124020
Carbon disulfide	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Chlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Chloroethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:30	124020

Laboratory Results

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-004

Client Sample ID: CW-9

Matrix: GROUNDWATER

Collection Date: 10/27/2016 8:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Chloromethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:30	124020
Chloroprene	NELAP	20.0		ND	µg/L	1	11/01/2016 16:30	124020
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Cyclohexanone		50.0		ND	µg/L	1	11/01/2016 16:30	124020
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Dibromomethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:30	124020
Ethyl acetate	NELAP	10.0		ND	µg/L	1	11/01/2016 16:30	124020
Ethyl ether	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Ethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Hexachloroethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:30	124020
Iodomethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	11/01/2016 16:30	124020
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	11/01/2016 16:30	124020
Methylacrylate	NELAP	10.0		ND	µg/L	1	11/01/2016 16:30	124020
Methylene chloride	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Naphthalene	NELAP	10.0		ND	µg/L	1	11/01/2016 16:30	124020
n-Butyl acetate		25.0		ND	µg/L	1	11/01/2016 16:30	124020
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
n-Heptane		20.0		ND	µg/L	1	11/01/2016 16:30	124020
n-Hexane		20.0		ND	µg/L	1	11/01/2016 16:30	124020
Nitrobenzene	NELAP	50.0		ND	µg/L	1	11/01/2016 16:30	124020
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
o-Xylene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Pentachloroethane	NELAP	20.0		ND	µg/L	1	11/01/2016 16:30	124020
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Propionitrile	NELAP	50.0		ND	µg/L	1	11/01/2016 16:30	124020
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Styrene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	11/01/2016 16:30	124020
Toluene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	11/01/2016 16:30	124020
Trichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:30	124020
Vinyl acetate	NELAP	10.0		ND	µg/L	1	11/01/2016 16:30	124020

Laboratory Results

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-004

Client Sample ID: CW-9

Matrix: GROUNDWATER

Collection Date: 10/27/2016 8:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	11/01/2016 16:30	124020
Surr: 1,2-Dichloroethane-d4		74.7-129		95.3	%REC	1	11/01/2016 16:30	124020
Surr: 4-Bromofluorobenzene		86-119		93.4	%REC	1	11/01/2016 16:30	124020
Surr: Dibromofluoromethane		81.7-123		101.0	%REC	1	11/01/2016 16:30	124020
Surr: Toluene-d8		84.3-114		92.5	%REC	1	11/01/2016 16:30	124020

LCS and LCSD recovered outside upper QC limits for iodomethane. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

Allowable Marginal Exceedance of ethyl ether in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-005

Client Sample ID: Dup

Matrix: GROUNDWATER

Collection Date: 10/27/2016 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	11/01/2016 16:57	124020
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	11/01/2016 16:57	124020
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
2-Butanone	NELAP	25.0		ND	µg/L	1	11/01/2016 16:57	124020
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	11/01/2016 16:57	124020
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
2-Hexanone	NELAP	25.0		ND	µg/L	1	11/01/2016 16:57	124020
2-Nitropropane	NELAP	50.0		ND	µg/L	1	11/01/2016 16:57	124020
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	11/01/2016 16:57	124020
Acetone	NELAP	25.0		ND	µg/L	1	11/01/2016 16:57	124020
Acetonitrile	NELAP	50.0		ND	µg/L	1	11/01/2016 16:57	124020
Acrolein	NELAP	100		ND	µg/L	1	11/01/2016 16:57	124020
Acrylonitrile	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Allyl chloride	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Benzene	NELAP	2.0		ND	µg/L	1	11/01/2016 16:57	124020
Bromobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Bromochloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Bromoform	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Bromomethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:57	124020
Carbon disulfide	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Chlorobenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Chloroethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:57	124020

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-005

Client Sample ID: Dup

Matrix: GROUNDWATER

Collection Date: 10/27/2016 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Chloromethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:57	124020
Chloroprene	NELAP	20.0		ND	µg/L	1	11/01/2016 16:57	124020
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Cyclohexanone		50.0		ND	µg/L	1	11/01/2016 16:57	124020
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Dibromomethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:57	124020
Ethyl acetate	NELAP	10.0		ND	µg/L	1	11/01/2016 16:57	124020
Ethyl ether	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Ethylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Hexachloroethane	NELAP	10.0		ND	µg/L	1	11/01/2016 16:57	124020
Iodomethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	11/01/2016 16:57	124020
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	11/01/2016 16:57	124020
Methylacrylate	NELAP	10.0		ND	µg/L	1	11/01/2016 16:57	124020
Methylene chloride	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Naphthalene	NELAP	10.0		ND	µg/L	1	11/01/2016 16:57	124020
n-Butyl acetate		25.0		ND	µg/L	1	11/01/2016 16:57	124020
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
n-Heptane		20.0		ND	µg/L	1	11/01/2016 16:57	124020
n-Hexane		20.0		ND	µg/L	1	11/01/2016 16:57	124020
Nitrobenzene	NELAP	50.0		ND	µg/L	1	11/01/2016 16:57	124020
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
o-Xylene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Pentachloroethane	NELAP	20.0		ND	µg/L	1	11/01/2016 16:57	124020
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Propionitrile	NELAP	50.0		ND	µg/L	1	11/01/2016 16:57	124020
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Styrene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	11/01/2016 16:57	124020
Toluene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	11/01/2016 16:57	124020
Trichloroethene	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	11/01/2016 16:57	124020
Vinyl acetate	NELAP	10.0		ND	µg/L	1	11/01/2016 16:57	124020

Laboratory Results

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants
Client Project: Huster Road 12-678.0004

Work Order: 16101665
Report Date: 02-Nov-16

Lab ID: 16101665-005

Client Sample ID: Dup

Matrix: GROUNDWATER

Collection Date: 10/27/2016 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	11/01/2016 16:57	124020
Surr: 1,2-Dichloroethane-d4		74.7-129		93.9	%REC	1	11/01/2016 16:57	124020
Surr: 4-Bromofluorobenzene		86-119		94.4	%REC	1	11/01/2016 16:57	124020
Surr: Dibromofluoromethane		81.7-123		98.6	%REC	1	11/01/2016 16:57	124020
Surr: Toluene-d8		84.3-114		93.7	%REC	1	11/01/2016 16:57	124020

LCS and LCSD recovered outside upper QC limits for iodomethane. Sample results are below reporting limit. Data is reportable per 2009 TNI Standard (Volume1, Module 4, section 1.7.4.2).

Allowable Marginal Exceedance of ethyl ether in the LCS verified per 2009 TNI Standard (Volume 1, Module 4, section 1.7.4.2).



Sample Summary

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
16101665-001	CW-4	Groundwater	1	10/27/2016 8:00
16101665-002	CW-5	Groundwater	1	10/27/2016 8:05
16101665-003	CW-6	Groundwater	1	10/27/2016 8:35
16101665-004	CW-9	Groundwater	1	10/27/2016 8:40
16101665-005	Dup	Groundwater	1	10/27/2016 0:00

Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

Sample ID	Client Sample ID	Collection Date	Received Date	
			Prep Date/Time	Analysis Date/Time
16101665-001A	CW-4	10/27/2016 8:00	10/27/2016 14:08	
		SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		11/01/2016 15:09
16101665-002A	CW-5	10/27/2016 8:05	10/27/2016 14:08	
		SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		11/01/2016 15:36
16101665-003A	CW-6	10/27/2016 8:35	10/27/2016 14:08	
		SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		11/01/2016 16:03
16101665-004A	CW-9	10/27/2016 8:40	10/27/2016 14:08	
		SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		11/01/2016 16:30
16101665-005A	Dup	10/27/2016 0:00	10/27/2016 14:08	
		SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		11/01/2016 16:57

Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	124020	SampType	MBLK	Units	µg/L						Date Analyzed
Analyses		RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	
1,1,1,2-Tetrachloroethane		5.0		ND							11/01/2016
1,1,1-Trichloroethane		5.0		ND							11/01/2016
1,1,2,2-Tetrachloroethane		5.0		ND							11/01/2016
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND							11/01/2016
1,1,2-Trichloroethane		5.0		ND							11/01/2016
1,1-Dichloro-2-propanone		50.0		ND							11/01/2016
1,1-Dichloroethane		5.0		ND							11/01/2016
1,1-Dichloroethene		5.0		ND							11/01/2016
1,1-Dichloropropene		5.0		ND							11/01/2016
1,2,3-Trichlorobenzene		5.0		ND							11/01/2016
1,2,3-Trichloropropane		5.0		ND							11/01/2016
1,2,3-Trimethylbenzene		5.0		ND							11/01/2016
1,2,4-Trichlorobenzene		5.0		ND							11/01/2016
1,2,4-Trimethylbenzene		5.0		ND							11/01/2016
1,2-Dibromo-3-chloropropane		5.0		ND							11/01/2016
1,2-Dibromoethane		5.0		ND							11/01/2016
1,2-Dichlorobenzene		5.0		ND							11/01/2016
1,2-Dichloroethane		5.0		ND							11/01/2016
1,2-Dichloropropane		5.0		ND							11/01/2016
1,3,5-Trimethylbenzene		5.0		ND							11/01/2016
1,3-Dichlorobenzene		5.0		ND							11/01/2016
1,3-Dichloropropane		5.0		ND							11/01/2016
1,4-Dichlorobenzene		5.0		ND							11/01/2016
1-Chlorobutane		5.0		ND							11/01/2016
2,2-Dichloropropane		5.0		ND							11/01/2016
2-Butanone		25.0		ND							11/01/2016
2-Chloroethyl vinyl ether		20.0		ND							11/01/2016
2-Chlorotoluene		5.0		ND							11/01/2016
2-Hexanone		25.0		ND							11/01/2016
2-Nitropropane		50.0		ND							11/01/2016
4-Chlorotoluene		5.0		ND							11/01/2016
4-Methyl-2-pentanone		25.0		ND							11/01/2016
Acetone		25.0		ND							11/01/2016
Acetonitrile		50.0		ND							11/01/2016
Acrolein		100		ND							11/01/2016
Acrylonitrile		5.0		ND							11/01/2016
Allyl chloride		5.0		ND							11/01/2016
Benzene		2.0		ND							11/01/2016
Bromobenzene		5.0		ND							11/01/2016
Bromochloromethane		5.0		ND							11/01/2016
Bromodichloromethane		5.0		ND							11/01/2016
Bromoform		5.0		ND							11/01/2016
Bromomethane		10.0		ND							11/01/2016
Carbon disulfide		5.0		ND							11/01/2016
Carbon tetrachloride		5.0		ND							11/01/2016
Chlorobenzene		5.0		ND							11/01/2016
Chloroethane		10.0		ND							11/01/2016

Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	124020	SampType	MBLK	Units	µg/L						Date Analyzed
SampID:			MBLK-N161101A-1								
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit
Chloroform		5.0			ND						11/01/2016
Chloromethane		10.0			ND						11/01/2016
Chloroprene		20.0			ND						11/01/2016
cis-1,2-Dichloroethene		5.0			ND						11/01/2016
cis-1,3-Dichloropropene		5.0			ND						11/01/2016
cis-1,4-Dichloro-2-butene		5.0			ND						11/01/2016
Cyclohexanone		50.0			ND						11/01/2016
Dibromochloromethane		5.0			ND						11/01/2016
Dibromomethane		5.0			ND						11/01/2016
Dichlorodifluoromethane		10.0			ND						11/01/2016
Ethyl acetate		10.0			ND						11/01/2016
Ethyl ether		5.0			ND						11/01/2016
Ethyl methacrylate		5.0			ND						11/01/2016
Ethylbenzene		5.0			ND						11/01/2016
Hexachlorobutadiene		5.0			ND						11/01/2016
Hexachloroethane		10.0			ND						11/01/2016
Iodomethane		5.0			ND						11/01/2016
Isopropylbenzene		5.0			ND						11/01/2016
m,p-Xylenes		5.0			ND						11/01/2016
Methacrylonitrile		10.0			ND						11/01/2016
Methyl Methacrylate		5.0			ND						11/01/2016
Methyl tert-butyl ether		2.0			ND						11/01/2016
Methylacrylate		10.0			ND						11/01/2016
Methylene chloride		5.0			ND						11/01/2016
Naphthalene		10.0			ND						11/01/2016
n-Butyl acetate		25.0			ND						11/01/2016
n-Butylbenzene		5.0			ND						11/01/2016
n-Heptane		20.0			ND						11/01/2016
n-Hexane		20.0			ND						11/01/2016
Nitrobenzene		50.0			ND						11/01/2016
n-Propylbenzene		5.0			ND						11/01/2016
o-Xylene		5.0			ND						11/01/2016
Pentachloroethane		20.0			ND						11/01/2016
p-Isopropyltoluene		5.0			ND						11/01/2016
Propionitrile		50.0			ND						11/01/2016
sec-Butylbenzene		5.0			ND						11/01/2016
Styrene		5.0			ND						11/01/2016
tert-Butylbenzene		5.0			ND						11/01/2016
Tetrachloroethene		5.0			ND						11/01/2016
Tetrahydrofuran		20.0			ND						11/01/2016
Toluene		5.0			ND						11/01/2016
trans-1,2-Dichloroethene		5.0			ND						11/01/2016
trans-1,3-Dichloropropene		5.0			ND						11/01/2016
trans-1,4-Dichloro-2-butene		10.0			ND						11/01/2016
Trichloroethene		5.0			ND						11/01/2016
Trichlorofluoromethane		5.0			ND						11/01/2016
Vinyl acetate		10.0			ND						11/01/2016



Quality Control Results

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Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 124020 **SampType:** MBLK **Units** µg/L

SampID: MBLK-N161101A-1

Analyses	RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Vinyl chloride	2.0		ND							11/01/2016
Surr: 1,2-Dichloroethane-d4			46.7	50.00		93.5		74.7	129	11/01/2016
Surr: 4-Bromofluorobenzene			48.2	50.00		96.5		86	119	11/01/2016
Surr: Dibromofluoromethane			50.0	50.00		100.0		81.7	123	11/01/2016
Surr: Toluene-d8			46.2	50.00		92.4		84.3	114	11/01/2016

Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	124020	SampType:	LCSD	Units	µg/L	RPD Limit 40						Date Analyzed
						Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
				SampID:	LCSD-N161101A-1							
Analyses		RL	Qual									
1,1,1,2-Tetrachloroethane		5.0				47.9	50.00	0	95.8	50.88	6.03	11/01/2016
1,1,1-Trichloroethane		5.0				50.1	50.00	0	100.2	50.06	0.12	11/01/2016
1,1,2,2-Tetrachloroethane		5.0				43.5	50.00	0	87.0	43.92	0.91	11/01/2016
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0				52.9	50.00	0	105.8	54.37	2.72	11/01/2016
1,1,2-Trichloroethane		5.0				44.8	50.00	0	89.6	47.14	5.11	11/01/2016
1,1-Dichloro-2-propanone		50.0				118	125.0	0	94.7	115.8	2.19	11/01/2016
1,1-Dichloroethane		5.0				52.8	50.00	0	105.5	51.74	1.97	11/01/2016
1,1-Dichloroethene		5.0				51.3	50.00	0	102.5	53.58	4.41	11/01/2016
1,1-Dichloropropene		5.0				51.9	50.00	0	103.8	52.94	1.95	11/01/2016
1,2,3-Trichlorobenzene		5.0				48.8	50.00	0	97.7	50.84	4.03	11/01/2016
1,2,3-Trichloropropane		5.0				43.9	50.00	0	87.8	46.14	5.00	11/01/2016
1,2,3-Trimethylbenzene		5.0				43.3	50.00	0	86.6	46.47	7.06	11/01/2016
1,2,4-Trichlorobenzene		5.0				47.7	50.00	0	95.4	50.19	5.13	11/01/2016
1,2,4-Trimethylbenzene		5.0				45.1	50.00	0	90.3	46.83	3.68	11/01/2016
1,2-Dibromo-3-chloropropane		5.0				43.7	50.00	0	87.4	46.71	6.70	11/01/2016
1,2-Dibromoethane		5.0				47.5	50.00	0	95.0	49.49	4.12	11/01/2016
1,2-Dichlorobenzene		5.0				45.7	50.00	0	91.5	48.66	6.21	11/01/2016
1,2-Dichloroethane		5.0				48.4	50.00	0	96.9	49.75	2.69	11/01/2016
1,2-Dichloropropane		5.0				51.2	50.00	0	102.5	51.63	0.78	11/01/2016
1,3,5-Trimethylbenzene		5.0				43.7	50.00	0	87.4	46.98	7.19	11/01/2016
1,3-Dichlorobenzene		5.0				45.5	50.00	0	91.0	47.57	4.40	11/01/2016
1,3-Dichloropropane		5.0				44.0	50.00	0	87.9	46.48	5.60	11/01/2016
1,4-Dichlorobenzene		5.0				43.8	50.00	0	87.7	47.12	7.23	11/01/2016
1-Chlorobutane		5.0				49.9	50.00	0	99.8	50.19	0.58	11/01/2016
2,2-Dichloropropane		5.0				49.3	50.00	0	98.6	50.65	2.70	11/01/2016
2-Butanone		25.0				130	125.0	0	104.2	132.8	1.93	11/01/2016
2-Chloroethyl vinyl ether		20.0				55.2	50.00	0	110.5	58.12	5.06	11/01/2016
2-Chlorotoluene		5.0				42.6	50.00	0	85.1	45.42	6.48	11/01/2016
2-Hexanone		25.0				116	125.0	0	92.9	118.7	2.19	11/01/2016
2-Nitropropane		50.0				568	500.0	0	113.6	555.0	2.32	11/01/2016
4-Chlorotoluene		5.0				41.9	50.00	0	83.8	44.26	5.50	11/01/2016
4-Methyl-2-pentanone		25.0				120	125.0	0	95.6	123.1	2.97	11/01/2016
Acetone		25.0				103	125.0	0	82.5	103.7	0.56	11/01/2016
Acetonitrile		50.0				541	500.0	0	108.2	563.9	4.19	11/01/2016
Acrolein		100				522	500.0	0	104.4	524.9	0.58	11/01/2016
Acrylonitrile		5.0				54.2	50.00	0	108.4	52.28	3.64	11/01/2016
Allyl chloride		5.0				53.6	50.00	0	107.1	55.23	3.05	11/01/2016
Benzene		2.0				52.7	50.00	0	105.3	53.27	1.15	11/01/2016
Bromobenzene		5.0				43.1	50.00	0	86.2	43.50	0.88	11/01/2016
Bromochloromethane		5.0				49.3	50.00	0	98.6	49.57	0.53	11/01/2016
Bromodichloromethane		5.0				51.2	50.00	0	102.4	52.17	1.84	11/01/2016
Bromoform		5.0				50.2	50.00	0	100.4	51.92	3.35	11/01/2016
Bromomethane		10.0				52.9	50.00	0	105.8	52.99	0.17	11/01/2016
Carbon disulfide		5.0				53.3	50.00	0	106.6	53.31	0.06	11/01/2016
Carbon tetrachloride		5.0				52.4	50.00	0	104.8	53.38	1.85	11/01/2016
Chlorobenzene		5.0				45.5	50.00	0	91.0	47.45	4.22	11/01/2016
Chloroethane		10.0				44.7	50.00	0	89.4	47.32	5.69	11/01/2016

Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	124020	SampType:	LCSD	Units	µg/L	RPD Limit 40							
												Date Analyzed	
SampID:	LCSD-N161101A-1												
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC		RPD	Ref Val	%RPD
Chloroform		5.0			48.9	50.00	0	97.8		48.92		0.08	11/01/2016
Chloromethane		10.0			47.8	50.00	0	95.6		48.42		1.27	11/01/2016
Chloroprene		20.0			48.5	50.00	0	97.0		48.06		0.89	11/01/2016
cis-1,2-Dichloroethene		5.0			49.8	50.00	0	99.6		50.84		2.03	11/01/2016
cis-1,3-Dichloropropene		5.0			52.9	50.00	0	105.8		54.21		2.41	11/01/2016
cis-1,4-Dichloro-2-butene		5.0			47.3	50.00	0	94.7		48.33		2.09	11/01/2016
Cyclohexanone		50.0			439	500.0	0	87.7		457.5		4.19	11/01/2016
Dibromochloromethane		5.0			48.2	50.00	0	96.4		49.02		1.69	11/01/2016
Dibromomethane		5.0			51.9	50.00	0	103.7		51.69		0.35	11/01/2016
Dichlorodifluoromethane		10.0			70.3	50.00	0	140.5		72.48		3.10	11/01/2016
Ethyl acetate		10.0			50.8	50.00	0	101.7		51.77		1.79	11/01/2016
Ethyl ether		5.0			53.6	50.00	0	107.1		54.63		1.96	11/01/2016
Ethyl methacrylate		5.0			49.8	50.00	0	99.5		52.31		4.98	11/01/2016
Ethylbenzene		5.0			45.4	50.00	0	90.8		48.49		6.63	11/01/2016
Hexachlorobutadiene		5.0			46.2	50.00	0	92.3		48.51		4.99	11/01/2016
Hexachloroethane		10.0			45.1	50.00	0	90.1		49.03		8.42	11/01/2016
Iodomethane		5.0	S		72.0	50.00	0	144.1		72.18		0.19	11/01/2016
Isopropylbenzene		5.0			47.2	50.00	0	94.4		48.24		2.16	11/01/2016
m,p-Xylenes		5.0			94.8	100.0	0	94.8		96.06		1.36	11/01/2016
Methacrylonitrile		10.0			54.4	50.00	0	108.7		56.04		3.06	11/01/2016
Methyl Methacrylate		5.0			56.7	50.00	0	113.5		55.24		2.68	11/01/2016
Methyl tert-butyl ether		2.0			52.3	50.00	0	104.6		51.86		0.84	11/01/2016
Methylacrylate		10.0			56.6	50.00	0	113.3		57.67		1.78	11/01/2016
Methylene chloride		5.0			47.5	50.00	0	95.0		47.90		0.86	11/01/2016
Naphthalene		10.0			51.3	50.00	0	102.5		54.27		5.69	11/01/2016
n-Butyl acetate		25.0			47.3	50.00	0	94.6		48.65		2.81	11/01/2016
n-Butylbenzene		5.0			45.0	50.00	0	90.0		46.55		3.34	11/01/2016
n-Heptane		20.0			50.2	50.00	0	100.4		52.46		4.38	11/01/2016
n-Hexane		20.0			52.2	50.00	0	104.4		52.69		0.95	11/01/2016
Nitrobenzene		50.0			512	500.0	0	102.5		548.0		6.70	11/01/2016
n-Propylbenzene		5.0			44.5	50.00	0	89.0		45.87		3.01	11/01/2016
o-Xylene		5.0			45.8	50.00	0	91.6		46.64		1.82	11/01/2016
Pentachloroethane		20.0			46.5	50.00	0	92.9		48.38		4.05	11/01/2016
p-Isopropyltoluene		5.0			46.7	50.00	0	93.4		48.59		3.97	11/01/2016
Propionitrile		50.0			541	500.0	0	108.2		561.5		3.73	11/01/2016
sec-Butylbenzene		5.0			43.8	50.00	0	87.6		46.52		6.02	11/01/2016
Styrene		5.0			49.0	50.00	0	97.9		49.78		1.66	11/01/2016
tert-Butylbenzene		5.0			43.0	50.00	0	86.0		46.13		7.02	11/01/2016
Tetrachloroethene		5.0			47.5	50.00	0	95.0		49.99		5.07	11/01/2016
Tetrahydrofuran		20.0			54.1	50.00	0	108.2		54.24		0.30	11/01/2016
Toluene		5.0			47.0	50.00	0	93.9		47.28		0.66	11/01/2016
trans-1,2-Dichloroethene		5.0			51.2	50.00	0	102.5		51.35		0.23	11/01/2016
trans-1,3-Dichloropropene		5.0			47.8	50.00	0	95.6		48.41		1.27	11/01/2016
trans-1,4-Dichloro-2-butene		10.0			46.3	50.00	0	92.7		48.10		3.73	11/01/2016
Trichloroethene		5.0			53.8	50.00	0	107.6		54.66		1.59	11/01/2016
Trichlorofluoromethane		5.0			51.4	50.00	0	102.8		51.74		0.70	11/01/2016
Vinyl acetate		10.0			53.4	50.00	0	106.9		54.29		1.58	11/01/2016



Quality Control Results

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Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	124020	SampType	LCSD	Units	µg/L	RPD Limit 40						
Analyses		RL	Qual	Result	Spike	SPK	Ref Val	%REC	RPD	Ref Val	%RPD	Date Analyzed
Vinyl chloride		2.0		45.0	50.00	0	90.1	45.89	1.89	11/01/2016		
Surr: 1,2-Dichloroethane-d4				46.2	50.00		92.5			11/01/2016		
Surr: 4-Bromofluorobenzene				46.4	50.00		92.7			11/01/2016		
Surr: Dibromofluoromethane				51.1	50.00		102.2			11/01/2016		
Surr: Toluene-d8				47.0	50.00		94.0			11/01/2016		

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Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	124020	SampType:	LCS	Units	µg/L						Date Analyzed
SampID:	LCS-N161101A-1										
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit
1,1,1,2-Tetrachloroethane		5.0			50.9	50.00	0	101.8		81.9	115
1,1,1-Trichloroethane		5.0			50.1	50.00	0	100.1		79.4	124
1,1,2,2-Tetrachloroethane		5.0			43.9	50.00	0	87.8		74.7	116
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0			54.4	50.00	0	108.7		72.9	121
1,1,2-Trichloroethane		5.0			47.1	50.00	0	94.3		80.8	111
1,1-Dichloro-2-propanone		50.0			116	125.0	0	92.6		66.3	130
1,1-Dichloroethane		5.0			51.7	50.00	0	103.5		79.4	114
1,1-Dichloroethene		5.0			53.6	50.00	0	107.2		74.1	117
1,1-Dichloropropene		5.0			52.9	50.00	0	105.9		81.7	116
1,2,3-Trichlorobenzene		5.0			50.8	50.00	0	101.7		79.7	118
1,2,3-Trichloropropane		5.0			46.1	50.00	0	92.3		77.3	112
1,2,3-Trimethylbenzene		5.0			46.5	50.00	0	92.9		79.9	119
1,2,4-Trichlorobenzene		5.0			50.2	50.00	0	100.4		79.3	118
1,2,4-Trimethylbenzene		5.0			46.8	50.00	0	93.7		78.7	115
1,2-Dibromo-3-chloropropane		5.0			46.7	50.00	0	93.4		76	122
1,2-Dibromoethane		5.0			49.5	50.00	0	99.0		80.8	114
1,2-Dichlorobenzene		5.0			48.7	50.00	0	97.3		78.3	112
1,2-Dichloroethane		5.0			49.8	50.00	0	99.5		70.6	118
1,2-Dichloropropane		5.0			51.6	50.00	0	103.3		79.6	113
1,3,5-Trimethylbenzene		5.0			47.0	50.00	0	94.0		77.5	115
1,3-Dichlorobenzene		5.0			47.6	50.00	0	95.1		78.6	117
1,3-Dichloropropane		5.0			46.5	50.00	0	93.0		78.8	112
1,4-Dichlorobenzene		5.0			47.1	50.00	0	94.2		77.8	114
1-Chlorobutane		5.0			50.2	50.00	0	100.4		78.6	115
2,2-Dichloropropane		5.0			50.6	50.00	0	101.3		74.9	130
2-Butanone		25.0			133	125.0	0	106.2		70.7	136
2-Chloroethyl vinyl ether		20.0			58.1	50.00	0	116.2		52.5	145
2-Chlorotoluene		5.0			45.4	50.00	0	90.8		77.4	114
2-Hexanone		25.0			119	125.0	0	94.9		73.3	125
2-Nitropropane		50.0			555	500.0	0	111.0		67.3	139
4-Chlorotoluene		5.0			44.3	50.00	0	88.5		78.3	115
4-Methyl-2-pentanone		25.0			123	125.0	0	98.5		76.3	122
Acetone		25.0			104	125.0	0	83.0		56.4	147
Acetonitrile		50.0			564	500.0	0	112.8		59.3	129
Acrolein		100			525	500.0	0	105.0	1	201	110/2016
Acrylonitrile		5.0			52.3	50.00	0	104.6		74.1	128
Allyl chloride		5.0			55.2	50.00	0	110.5		71.5	123
Benzene		2.0			53.3	50.00	0	106.5		80	114
Bromobenzene		5.0			43.5	50.00	0	87.0		73.2	118
Bromochloromethane		5.0			49.6	50.00	0	99.1		73.3	121
Bromodichloromethane		5.0			52.2	50.00	0	104.3		81.6	121
Bromoform		5.0			51.9	50.00	0	103.8		83.1	127
Bromomethane		10.0			53.0	50.00	0	106.0		44.4	154
Carbon disulfide		5.0			53.3	50.00	0	106.6		73.2	118
Carbon tetrachloride		5.0			53.4	50.00	0	106.8		79.4	130
Chlorobenzene		5.0			47.4	50.00	0	94.9		81.4	110
Chloroethane		10.0			47.3	50.00	0	94.6		52.1	137

Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	124020	SampType	LCS	Units	µg/L						Date Analyzed	
SampID:	LCS-N161101A-1											
Analyses		RL	Qual			Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
Chloroform		5.0				48.9	50.00	0	97.8	82.7	116	11/01/2016
Chloromethane		10.0				48.4	50.00	0	96.8	48.2	144	11/01/2016
Chloroprene		20.0				48.1	50.00	0	96.1	80.6	126	11/01/2016
cis-1,2-Dichloroethene		5.0				50.8	50.00	0	101.7	78.2	116	11/01/2016
cis-1,3-Dichloropropene		5.0				54.2	50.00	0	108.4	83	119	11/01/2016
cis-1,4-Dichloro-2-butene		5.0				48.3	50.00	0	96.7	60.7	137	11/01/2016
Cyclohexanone		50.0				457	500.0	0	91.5	54.2	145	11/01/2016
Dibromochloromethane		5.0				49.0	50.00	0	98.0	81.2	121	11/01/2016
Dibromomethane		5.0				51.7	50.00	0	103.4	78.3	118	11/01/2016
Dichlorodifluoromethane		10.0				72.5	50.00	0	145.0	20.6	154	11/01/2016
Ethyl acetate		10.0				51.8	50.00	0	103.5	73.1	116	11/01/2016
Ethyl ether		5.0	S			54.6	50.00	0	109.3	75.2	109	11/01/2016
Ethyl methacrylate		5.0				52.3	50.00	0	104.6	80.1	113	11/01/2016
Ethylbenzene		5.0				48.5	50.00	0	97.0	77.2	113	11/01/2016
Hexachlorobutadiene		5.0				48.5	50.00	0	97.0	77.3	123	11/01/2016
Hexachloroethane		10.0				49.0	50.00	0	98.1	74.6	117	11/01/2016
Iodomethane		5.0	S			72.2	50.00	0	144.4	61.3	140	11/01/2016
Isopropylbenzene		5.0				48.2	50.00	0	96.5	81.3	114	11/01/2016
m,p-Xylenes		5.0				96.1	100.0	0	96.1	79.6	113	11/01/2016
Methacrylonitrile		10.0				56.0	50.00	0	112.1	77.2	125	11/01/2016
Methyl Methacrylate		5.0				55.2	50.00	0	110.5	74.2	121	11/01/2016
Methyl tert-butyl ether		2.0				51.9	50.00	0	103.7	76.8	117	11/01/2016
Methylacrylate		10.0				57.7	50.00	0	115.3	78	124	11/01/2016
Methylene chloride		5.0				47.9	50.00	0	95.8	74.1	114	11/01/2016
Naphthalene		10.0				54.3	50.00	0	108.5	77.9	122	11/01/2016
n-Butyl acetate		25.0				48.6	50.00	0	97.3	74	120	11/01/2016
n-Butylbenzene		5.0				46.6	50.00	0	93.1	71.1	120	11/01/2016
n-Heptane		20.0				52.5	50.00	0	104.9	67.4	129	11/01/2016
n-Hexane		20.0				52.7	50.00	0	105.4	68.4	126	11/01/2016
Nitrobenzene		50.0				548	500.0	0	109.6	37.9	181	11/01/2016
n-Propylbenzene		5.0				45.9	50.00	0	91.7	74.6	118	11/01/2016
o-Xylene		5.0				46.6	50.00	0	93.3	80.1	111	11/01/2016
Pentachloroethane		20.0				48.4	50.00	0	96.8	78.8	117	11/01/2016
p-Isopropyltoluene		5.0				48.6	50.00	0	97.2	77.6	118	11/01/2016
Propionitrile		50.0				562	500.0	0	112.3	72.9	137	11/01/2016
sec-Butylbenzene		5.0				46.5	50.00	0	93.0	74.5	119	11/01/2016
Styrene		5.0				49.8	50.00	0	99.6	83.4	113	11/01/2016
tert-Butylbenzene		5.0				46.1	50.00	0	92.3	75.9	114	11/01/2016
Tetrachloroethene		5.0				50.0	50.00	0	100.0	72.5	125	11/01/2016
Tetrahydrofuran		20.0				54.2	50.00	0	108.5	69.6	125	11/01/2016
Toluene		5.0				47.3	50.00	0	94.6	77.5	113	11/01/2016
trans-1,2-Dichloroethene		5.0				51.4	50.00	0	102.7	79	114	11/01/2016
trans-1,3-Dichloropropene		5.0				48.4	50.00	0	96.8	78	115	11/01/2016
trans-1,4-Dichloro-2-butene		10.0				48.1	50.00	0	96.2	63.3	128	11/01/2016
Trichloroethene		5.0				54.7	50.00	0	109.3	84.4	114	11/01/2016
Trichlorofluoromethane		5.0				51.7	50.00	0	103.5	75.2	132	11/01/2016
Vinyl acetate		10.0				54.3	50.00	0	108.6	64.5	127	11/01/2016

Quality Control Results

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	124020	SampType	LCS	Units	µg/L								
SampID: LCS-N161101A-1													
Analyses		RL	Qual			Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Vinyl chloride		2.0				45.9	50.00	0	91.8		58	134	11/01/2016
Surr: 1,2-Dichloroethane-d4						45.8	50.00		91.5		74.7	129	11/01/2016
Surr: 4-Bromofluorobenzene						47.5	50.00		95.1		86	119	11/01/2016
Surr: Dibromofluoromethane						50.0	50.00		99.9		81.7	123	11/01/2016
Surr: Toluene-d8						45.3	50.00		90.6		84.1	114	11/01/2016

Batch	124020	SampType	LCSGD	Units	%REC								
SampID: LCSGD-N161101A-1											RPD Limit 0		
Analyses		RL	Qual			Result	Spike	SPK	Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Surr: 1,2-Dichloroethane-d4						46.6	50.00		93.2				11/01/2016
Surr: 4-Bromofluorobenzene						45.6	50.00		91.3				11/01/2016
Surr: Dibromofluoromethane						50.4	50.00		100.8				11/01/2016
Surr: Toluene-d8						46.3	50.00		92.6				11/01/2016

Batch	124020	SampType	LCSG	Units	%REC								
SampID: LCSG-N161101A-1											Date Analyzed		
Analyses		RL	Qual			Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	
Surr: 1,2-Dichloroethane-d4						45.0	50.00		89.9		74.7	129	11/01/2016
Surr: 4-Bromofluorobenzene						48.4	50.00		96.8		86	119	11/01/2016
Surr: Dibromofluoromethane						48.9	50.00		97.7		81.7	123	11/01/2016
Surr: Toluene-d8						46.1	50.00		92.1		84.3	114	11/01/2016

Batch	124020	SampType	MS	Units	µg/L								
SampID: 16101665-005AMS											Date Analyzed		
Analyses		RL	Qual			Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	
1,1-Dichloroethene		5.0				49.8	50.00	0	99.5		35.7	136	11/01/2016
Benzene		2.0				52.3	50.00	0	104.6		62.5	121	11/01/2016
Chlorobenzene		5.0				44.5	50.00	0	89.1		78.6	114	11/01/2016
Ethylbenzene		5.0				46.0	50.00	0	92.0		74.4	130	11/01/2016
m,p-Xylenes		5.0				46.5	50.00	0	93.0		70.5	126	11/01/2016
o-Xylene		5.0				44.5	50.00	0	89.0		71.2	124	11/01/2016
Toluene		5.0				44.9	50.00	0	89.8		69.5	118	11/01/2016
Trichloroethene		5.0				51.9	50.00	0	103.8		69.4	117	11/01/2016
Surr: 1,2-Dichloroethane-d4						47.4	50.00		94.9		74.7	129	11/01/2016
Surr: 4-Bromofluorobenzene						45.4	50.00		90.9		86	119	11/01/2016
Surr: Dibromofluoromethane						49.8	50.00		99.5		81.7	123	11/01/2016
Surr: Toluene-d8						46.7	50.00		93.4		84.3	114	11/01/2016

Receiving Check List

<http://www.teklabinc.com/>

Client: Civil & Environmental Consultants

Work Order: 16101665

Client Project: Huster Road 12-678.0004

Report Date: 02-Nov-16

Carrier: Employee

Received By: KF

Completed by:

On:

27-Oct-16



Amber M. Dilallo

Reviewed by:

On:

27-Oct-16



Elizabeth A. Hurley

Pages to follow: Chain of custody 1

Extra pages included 0

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 7.82
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input type="checkbox"/>
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 161011605

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28445



10/10/10